Title (en)

Method and apparatus for converting color spaces and multi-color display

Title (de)

Verfahren und Vorrichtung zur Farbraumkonversion und Mehrfarb-Display

Title (fr)

Procédé et appareil pour la conversion d'espaces couleur et dispositif d'affichage multicolore

Publication

EP 1571829 A3 20070221 (EN)

Application

EP 05251076 A 20050224

Priority

KR 20040012989 A 20040226

Abstract (en)

[origin: EP1571829A2] A method and apparatus for converting an m-dimensional color space comprising first through m-th input color components to an n-dimensional color space comprising first through n-th output color components (m<n) are provided. The method comprises extracting first through n-th intermediate color components by linearly combining the first through m-th input color components; determining whether the m+1-th through n-th intermediate color components are within a predetermined dynamic range; and compensating the first through n-th intermediate color components when signal values of the m+1-th through n-th intermediate color components are not within the dynamic range to obtain the first through n-th output color components. The color conversion to a higher-dimensional output color space is simplified.

IPC 8 full level

G06T 1/00 (2006.01); H04N 1/60 (2006.01); G09G 3/20 (2006.01); G09G 5/02 (2006.01); H04N 1/46 (2006.01); H04N 1/54 (2006.01); H04N 9/64 (2006.01); H04N 9/67 (2006.01); H04N 9/73 (2006.01); H04N 11/20 (2006.01)

CPC (source: EP KR US)

G04F 5/025 (2013.01 - KR); G11B 20/10 (2013.01 - KR); H03L 7/08 (2013.01 - KR); H04N 1/54 (2013.01 - EP US); H04N 9/67 (2013.01 - EP KR US); G09G 5/02 (2013.01 - EP US)

Citation (search report)

- [XA] JP H06261332 A 19940916 - JAPAN BROADCASTING CORP
- [A] US 2003025835 A1 20030206 - SEGMAN YOSEF [IL]
- [A] WO 9858493 A1 19981223 - ELECTRONICS FOR IMAGING INC [US]

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR LV MK YU

DOCDB simple family (publication)

EP 1571829 A2 20050907; **EP 1571829 A3 20070221**; CN 100456838 C 20090128; CN 1661666 A 20050831; JP 2005295511 A 20051020; KR 100601942 B1 20060714; KR 20050087268 A 20050831; US 2005190967 A1 20050901; US 8274527 B2 20120925

DOCDB simple family (application)

EP 05251076 A 20050224; CN 200510062808 A 20050225; JP 2005050046 A 20050225; KR 20040012989 A 20040226; US 6495105 A 20050225